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InfiniBand

Last modified: Thursday, January 29, 2004

Both an I/O architecture and a specification for the transmission of data between processors and I/O devices that has been gradually replacing the PCI bus in high-end servers and PCs. Instead of sending data in parallel, which is what PCI does, InfiniBand sends data in serial and can carry multiple channels of data at the same time in a multiplexing signal. The principles of InfiniBand mirror those of mainframe computer systems that are inherently channel-based systems. InfiniBand channels are created by attaching host channel adapters (HCAs) and target channel adapters (TCAs) through InfiniBand switches. HCAs are I/O engines located within a server. TCAs enable remote storage and network connectivity into the InfiniBand interconnect infrastructure, called a *fabric*. InfiniBand architecture is capable of supporting tens of thousands of nodes in a single subnet.

InfiniBand is a trademarked term. The technology is a result of the merger of two competing designs -- *Future I/O*, which was developed by Compaq, IBM and Hewlett-Packard, and *Next Generation I/O*, which was developed by Intel, Microsoft and Sun Microsystems. *InfiniBand* was previously called *System I/O*.

InfiniBand transmission rates begin at 2.5GBps.

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[An Introduction to the InfiniBand Architecture](#)

This article reviews each of the main architectural features of the InfiniBand as a solution to the corresponding limitation of current I/O subsystems.

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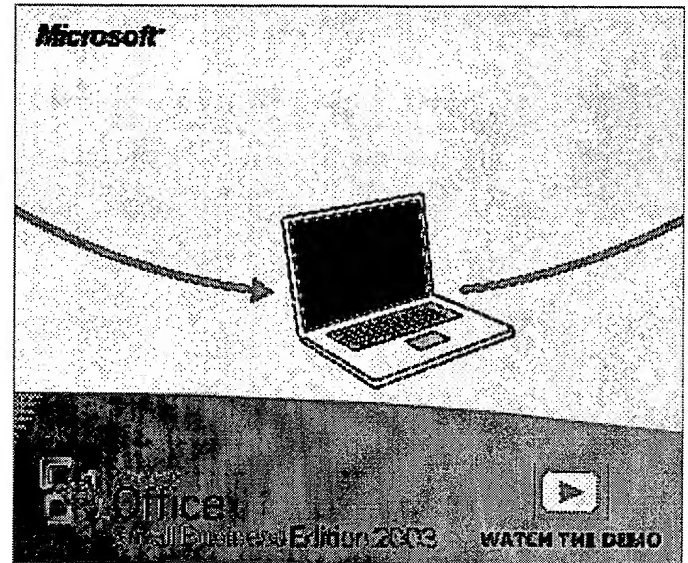
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fabric

(1) See *SAN fabric*.(2) The interconnect infrastructure of an
InfiniBand architecture.

Last modified: Wednesday, December 18, 2002

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subnet

A portion of a network that shares a common address component. On TCP/IP networks, subnets are defined as all devices whose IP addresses have the same prefix. For example, all devices with IP addresses that start with 100.100.100. would be part of the same subnet. Dividing a network into subnets is useful for both security and performance reasons. IP networks are divided using a subnet mask.

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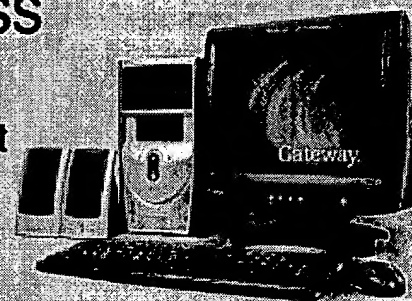
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